

Automobile Engineering MCQ Question Answer

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Question: 1. The self ignition temperature of Diesel as compared to petrol is

- Option A. Higher
- Option B. Lower
- Option C. Same
- Option D. Depends on fuel quality

Question: 2. The main characteristics of a maintenance free (MF) battery is that

- Option A. A maintenance free battery requires little maintenance during normal use and it is sufficient to add water instead of an electrolyte containing sulphuric acid
- Option B. A maintenance free battery has a relatively short shelf life when compared with standard batteries
- Option C. Since it is sealed, the water in maintenance free battery is not lost through evaporation thus accordingly it is not necessary to top up the cells with water
- Option D. Recharging of a maintenance free battery is neither required nor possible

Question: 3. The positive plates of a lead acid battery has

- Option A. Lead peroxide (PbO_2)
- Option B. Spongy lead (Pb)
- Option C. Lead sulphate (PbSO_4)
- Option D. Sulphuric acid (H_2SO_4)

Question: 4. What type of bearing is used for main bearings and connecting rod bearings?

- Option A. Ball bearings
- Option B. Plain bearings
- Option C. Needle roller bearing
- Option D. Taper roller bearing

Question: 5. The reconditioning process used to give cylinder bore surfaces a crosshatch pattern, is known as

- Option A. Honing
- Option B. Porous plating
- Option C. Boring
- Option D. Shot peening

Question: 6. The torque available at the contact between driving wheels and road is known as

- Option A. Brake effort
- Option B. Tractive effort
- Option C. Clutch effort

Option D. None of these

Question: 7. The valve overlap in four stroke petrol engines is approximately

Option A. 30°

Option B. 60°

Option C. 90°

Option D. 120°

Question: 8. The boiling point of Diesel fuel is in the range of

Option A. 70°C to 100°C

Option B. 100°C to 120°C

Option C. 120°C to 180°C

Option D. 180°C to 360°C

Question: 9. A four cylinder engine has a capacity of 2.4 litres. The swept volume of one cylinder is

Option A. 400 cm^3

Option B. 600 cm^3

Option C. 1200 cm^3

Option D. 2400 cm^3

Question: 10. When the piston is at T.D.C, the volume above the piston in the combustion chamber is the

Option A. Clearance volume

Option B. Cylinder volume

Option C. Exhaust volume

Option D. None of these

Question: 11. The characteristic that is enhanced by the use of cylinder sleeves is

Option A. Cooling efficiency

Option B. Resistance to wear

Option C. Lubrication performance

Option D. None of these

Question: 12. The sequence in which the force is transmitted through a brake system when the brake pedal is depressed is

Option A. Brake pedal, master cylinder, brake lines, vacuum servo mechanism, brake pads

Option B. Brake pedal, vacuum servo mechanism, master cylinder, brake lines, brake pads

Option C. Brake pedal, master cylinder, vacuum servo mechanism, brake lines, brake pads

Option D. Brake pedal, brake lines, vacuum servo mechanism, master cylinder, brake pads

Question: 13. The ignition coil is used to

- Option A. Step up current
- Option B. Step down current
- Option C. Step up voltage
- Option D. Step down voltage

Question: 14. The minimum parking brake force is generally _____ of gross vehicle mass (GVM).

- Option A. 5 %
- Option B. 10 %
- Option C. 15 %
- Option D. 20 %

Question: 15. The materials used for cylinder block are

- Option A. Cast iron and steel
- Option B. Cast iron and aluminium alloy
- Option C. Steel and aluminium alloy
- Option D. Brass and steel

Question: 16. The basic function of the suspension is to

- Option A. Absorbs vibration and impact forces from the road surface
- Option B. Ensure that the steering wheel can deliver a suitable amount of steering force
- Option C. Ensure that wheel alignment is not disturbed during driving
- Option D. Automatically correct the effects of over steering

Question: 17. In a four stroke engine for each crankshaft revolution, the camshaft revolves

- Option A. One half turn
- Option B. One turn
- Option C. Two turns
- Option D. Four turns

Question: 18. When turning a corner

- Option A. The front wheels are toeing out
- Option B. The front wheels are turning on different angles
- Option C. The inside front wheels has a greater angle than the outside wheel
- Option D. All of the above

Question: 19. The function of antilock brake system (ABS) is that is

- Option A. Reduces the stopping distance
- Option B. Minimises the brake fade
- Option C. Maintains directional control during braking by preventing the wheels from locking
- Option D. Prevents nose dives during braking and thereby postpones locking of the wheels

Question: 20. The painting of automobiles is done to

- Option A. Prevent rust from growing on the body
- Option B. Improve its external appearance
- Option C. Retain the characteristics of steel for long
- Option D. All of these

Question: 21. The main task of a battery in automobiles is to

- Option A. Supply electricity to the alternator
- Option B. Act as a reservoir or stabilizer of electricity
- Option C. Supply electricity to the vehicle's electrical system at all times while the engine is running
- Option D. Supply a large amount of power to turn the starter motor when the engine is being started

Question: 22. During braking, the brake shoe is moved outward to force the lining against the

- Option A. Wheel piston or cylinder
- Option B. Anchor pin
- Option C. Brake drum
- Option D. Wheel rim or axle

Question: 23. The component of the oil filter that prevents the passage of metal particles and sludge is

- Option A. Element
- Option B. Relief valve
- Option C. Check valve
- Option D. Case

Question: 24. The instrument used to check specific gravity of acid in a battery is

- Option A. Hydrometer
- Option B. Hygrometer
- Option C. Anemometer
- Option D. Multimeter

Question: 25. The coefficient of friction for the clutch facing is approximately

- Option A. 0.1
- Option B. 0.4
- Option C. 0.8
- Option D. 1.2

Question: 26. The braking control type traction control system (TCS) generally operates in the speed range of

- Option A. Less than 20 kmph
- Option B. Less than 40 kmph
- Option C. Less than 60 kmph
- Option D. More than 60 kmph

Question: 27. Which of the following is not an automobile?

- Option A. Motor cycle
- Option B. Passenger car
- Option C. Aeroplane
- Option D. Truck

Question: 28. The condition that results in large quantities of HC emission is

- Option A. High temperature combustion
- Option B. Incomplete combustion
- Option C. Low temperature combustion
- Option D. High atmospheric temperature combustion

Question: 29. A clutch is usually designed to transmit maximum torque which is

- Option A. Equal to the maximum engine torque
- Option B. 80 % of the maximum engine torque
- Option C. 150 % of the maximum engine torque
- Option D. None of these

Question: 30. The antiknock property of compression ignition engine fuel can be improved by adding

- Option A. Tetraethyl lead
- Option B. Trimethyl pentane
- Option C. Amyl nitrate
- Option D. Hexadecane

Answer Sheet

1	B	
2	C	
3	A	
4	B	
5	A	
6	B	
7	A	
8	D	
9	B	
10	A	
11	B	
12	B	
13	C	
14	D	
15	B	
16	A	
17	A	
18	D	
19	C	
20	D	
21	D	
22	C	
23	A	
24	A	
25	B	
26	B	
27	C	
28	B	
29	C	
30	C	